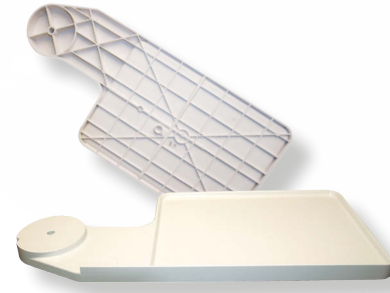


## Freedom of Design

If your designs have been restricted in the past, Sajar has a solution. Our unique process offers you all the creativity you need in small and large part construction.

### Larger Parts

- Freedom to design larger, more attractive parts.
- Consolidate many smaller parts into fewer, larger parts.
- Include ribs and bosses in part design.



### Lighter Parts

- Ideal for metal to plastic conversion, hollow core and full geometry parts.
- Enhanced dimensional stability.
- No need for separate coring operations. We core within the gas mold process.

### Attractive Parts

- Elegant profiles.
- No warping or sink marks.
- Base and texture painting, pad printing, and mist coat painting.



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sales@sajar.com

ISO 9001:2008 Certified



UL Certified for Gas Assist Injection Molding

*We make light work of large parts, complex designs, and consistent surface finishes.*



440.632.5203 • sajarplastics.com

*The Innovative Leader in Large Part Gas Assist Molding*



# Experience the Innovation of Gas Assist Injection Molding

## Why Sajar Plastics?

### We are your premier choice...

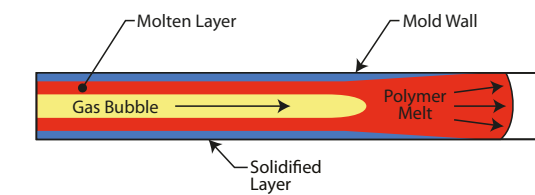
- **Multiple injection styles:**
  - ➔ Gas Assist Injection Molding
  - ➔ Straight Injection Molding
  - ➔ Structural Foam
- **Short to medium production runs.**
- **Product flexibility and efficiency for multiple component projects:**
  - ➔ 17 injection molding machines
  - ➔ 85 to 1500 ton press capacity
  - ➔ Parts up to 1,000 sq. in. surface area
  - ➔ Molds up to 80" width and 70" height
- **Decoration**
  - ➔ Mist Coat Painting
  - ➔ Finish Gloss and Texture Painting
  - ➔ Pad Printing, Hot Stamping, Silk Screening
- **Complex Assembly**
  - ➔ Sonically Welded Inserts
  - ➔ Electronics
  - ➔ Label Application
  - ➔ Custom Packaging
- **ISO 9001:2008, , RoHS **
- **99.7% Customer Satisfaction Rating**
- **Just-in-Time Manufacturing/Kanban Programs**

For these and so many reasons, Sajar Plastics has been innovating for over 60 years. Twenty five years ago we became America's leader in Gas Assist Injection Molding. We specialize in the design assistance, product development and production of large, appearance enhanced, quality critical plastic parts.

## The Gas Assist Process

Gas assist injection molding is a low pressure, conventional injection molding process that requires the injection of pressurized nitrogen gas into a short shot of molten resin.

The gas flows through strategically designed and located gas channels, following the path of least resistance to displace the material in the thick areas of the part by forming hollow sections. This process reduces material usage but does not compromise the appearance and functional performance of the part.



Next, the pressurized gas packs and holds the molten resin against the cavity walls until the part solidifies. Constant gas pressure prevents thick, customer facing part sections from shrinking and warping as the resin cools and solidifies. Once the part solidifies, the gas is vented from the tool.

Most thermoplastics can benefit from the gas assist injection molding process, including Polypropylene (PP), ABS, PC, PC/ABS, HIPS and Nylon.

## The Sajar Story

Sajar Plastics was founded in Middlefield, Ohio in 1949 with three injection molding machines producing straight injection molded parts. The name Sajar is an acronym reflecting the last names of the founding three owners. Sajar grew steadily over the years expanding manufacturing capabilities and facility, a direct result from earning a reputation in the custom molding industry as an innovative molder supplying high quality parts at competitive costs.

In the early 1980's, Sajar was one of the three original companies who developed gas assist molding technology. To date, we have commercialized over 500 gas assist parts for leading OEM's in a wide variety of industries.

With small, medium and large tonnage presses, along with in-house painting and full secondary operations and assembly, we are well-equipped to handle your requirements. We welcome your visit so you can see our gas assist technology and capabilities.



 **Sajar Plastics**

*The Innovative Leader in Large Part Gas Assist Molding*



**SajarPlastics**



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